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DECEMBER 22, 2000

PTAS

STAAS & HALSEY LLP
ATTN: JAMES D. HALSEY, JR.
700 ELEVENTH STREET, N.W.
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WASHINGTON, D.C. 20001



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RECORDATION DATE: 10/12/2000

REEL/FRAME: 011183/0048
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
NARUSE, AKIRA

DOC DATE: 07/09/2000

ASSIGNEE:
KUMON, KOUICHI

DOC DATE: 07/09/2000

ASSIGNEE:
SATO, MITSURU

DOC DATE: 07/09/2000

ASSIGNEE:
FUJITSU LIMITED
1-1, KAMIKODANAKA 4-CHOME,
NAKAHARA-KU
KAWASAKI-SHI, KANAGAWA, JAPAN

211-8588

SERIAL NUMBER: 09646282
PATENT NUMBER:

FILING DATE: 10/12/2000
ISSUE DATE:

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011183/0048 PAGE 2

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

U.S. ASSIGNMENT

SLN 774

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned Inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(s))

FUJITSU LIMITED

of 1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki-shi, Kanagawa 211-8588, Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the Invention entitled

(Title of Invention)

Cache apparatus and control method

relating to International Patent Application PCT/JP 8 / 05588 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on December 10, 1998

Serial No. /

Any registered attorney of STAAS & HALSEY, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified date, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned Inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

Akira Natuse Akira Natuse 7/9/00
Akira Natuse

Miki Sato Miki Sato
Miki Sato

Kouichi Kumon Kouichi Kumon 7/9/00
Kouichi Kumon

Miki Sato Miki Sato
Miki Sato

Mitsuru Sato Mitsuru Sato 7/9/00
Mitsuru Sato

Miki Sato Miki Sato
Miki Sato

P-225-2027-05,
1086-1141



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SEPTEMBER 05, 2001

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STAAS & HALSEY LLP
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700 ELEVENTH STREET, N.W.
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WASHINGTON, D.C. 20001

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RECORDATION DATE: 06/15/2001

REEL/FRAME: 011922/0498
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
SATO, MITSURU

DOC DATE: 02/20/2001

ASSIGNEE:
KUMON, KOUICHI

DOC DATE: 02/20/2001

ASSIGNEE:
FUJITSU LIMITED
1-1, KAMIKODANAKA 4-CHOME,
NAKAHARA-KU, KAWASAKI-SHI
KANAGAWA 211-8588, JAPAN

FILING DATE: 06/18/2001
ISSUE DATE:

SERIAL NUMBER: 09786049
PATENT NUMBER:

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-28-2001

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To the Honorable Commissioner of Patents



101763042

Original documents or copy thereof.

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1. Name of conveying party(ies):

Mitsuru SATO
Kouichi KUMON

MHD
6.18.01

2. Name and Address of receiving party(ies):

FUJITSU LIMITED
1-1, Kamikodanaka 4-chome
Nakahara-ku, Kawasaki-shi
Kanagawa 211-8588 JAPAN

3. Nature of conveyance:

| | | |
|--|---|----------------|
| <input checked="" type="checkbox"/> Assignment | — | Merger |
| <input type="checkbox"/> Security Agreement | — | Change of Name |
| Other: _____ | | |

Execution Date(s): February 20, 2001

4. Application number(s) or patent number(s):

This document is being filed together with a new application:

- (a) The execution date(s) of the application is/are:
 (b) The title is:

*** OR ***

This document is being filed after filing of the application:

- (a) Patent Application No(s). 09/786,049, filed March 1, 2001; or
 (b) Patent No(s). , issued .

5. Name and address of party to whom correspondence concerning document should be mailed:

STAAS & HALSEY LLP
Attention: James D. Halsey, Jr.
700 Eleventh Street, N.W., Suite 500
Washington, D.C. 20001

Our Docket: 1086.1141

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Assignment)

- Enclosed
 Authorized to be charged to deposit account.

/2001 ATRANI 8. 00000053 09786049
#581 Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit
Account) 40.00 (P)
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James D. Halsey, Jr., Reg. No. 22,729
Name of Person Signing

Total number of pages Including cover sheet June 13, 2001

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U.S. ASSIGNMENT

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IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned Inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

FUJITSU LIMITED

of 1-1, Kamikodanaka 4-chome, Nakahara-ku,

Kawasaki-shi, Kanagawa 211-8588, Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

Cache device and control method

relating to International Patent Application PCT/JP98 / 05759 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on December 18, 1998

Serial No. _____;

Any registered attorney of STAAS & HALSEY, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified date, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

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IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) Mitsuru Sato

20/2/01

Sumie Nishimura

Sumie Nishimura

2) Kouichi Kumon

20/2/01

Sumie Nishimura

Sumie Nishimura

3) _____

4) _____